

**IN THE CLAIMS**

Please substitute claims 1-73 with the following:

1. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period,

wherein the measuring period comprises a plurality of time intervals;

receiving user input indicating a selected one of the plurality of states;

receiving user input indicating a selected one of the plurality of threads;

determining a portion of the measuring period during which the selected thread is in the selected state;

determining, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the selected state; and

when it is determined that the other thread is in the other state, determining an amount of time that the other thread is in the other state.

2. (Original) The method of claim 1, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

3. (Original) The method of claim 1, further comprising the steps of:

determining, during the portion of the measuring period, whether the other thread is in the selected state;

when it is determined that the other thread is in the selected state, determining a second amount of time that the other thread is in the selected state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the other thread is in the selected state.

4. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating one of the plurality of states to anchor;

receiving user input indicating a selected one of the plurality of threads;

determining a portion of the measuring period during which the selected thread is in the anchored state;

determining, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the anchored state; and

when it is determined that the other thread is in the other state, determining an amount of time that the other thread is in the other state.

5. (Original) The method of claim 4, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

6. (Original) The method of claim 4, further comprising the steps of:

determining, during the portion of the measuring period, whether the other thread is in the anchored state;

when it is determined that the other thread is in the anchored state, determining a second amount of time that the other thread is in the anchored state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the other thread is in the anchored state.

7. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states;  
receiving user input indicating a selected one of the plurality of threads; and  
determining a portion of the measuring period during which the selected thread is in the selected state.

8. (Original) The method of claim 7, further comprising the steps of:  
determining, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the selected state;  
when it is determined that the other thread is in the other state, determining an amount of time that the other thread is in the other state; and  
calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

9. (Original) The method of claim 7, further comprising the steps of:  
determining, during the portion of the measuring period, whether another thread other than the selected thread is in the selected state;  
when it is determined that the other thread is in the selected state, determining an amount of time that the other thread is in the selected state; and

calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the selected state.

10. (Original) A method in a data processing system having a program with a plurality of states, wherein the program executes via a plurality of paths during a measuring period, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states;  
receiving user input indicating a selected one of the plurality of paths of execution; and  
determining a portion of the measuring period during which the selected path of execution is in the selected state.

11. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period,  
wherein the measuring period comprises a plurality of time intervals;  
receiving user input indicating a selected one of the plurality of states;  
receiving user input indicating a selected one of the plurality of threads;  
determining a portion of the measuring period during which the selected thread is in the selected state;  
determining, during the portion of the measuring period, whether another thread other than the selected thread is in the selected state; and  
when it is determined that the other thread is in the selected state, determining an amount of time that the other thread is in the selected state.

12. (Original) The method of claim 11, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the selected state.

13. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating one of the plurality of states to anchor;

receiving user input indicating a selected one of the plurality of threads;

determining a portion of the measuring period during which the selected thread is in the anchored state;

determining, during the portion of the measuring period, whether another thread other than the selected thread is in the anchored state; and

when it is determined that the other thread is in the anchored state, determining an amount of time that the other thread is in the anchored state.

14. (Original) The method of claim 13, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the anchored state.

15. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period, wherein the measuring period comprises a plurality of time intervals;

receiving user input indicating a selected one of the plurality of states;  
determining a portion of the measuring period during which any of the plurality of threads is in the selected state;  
determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the selected state; and  
when it is determined that the selected thread is in the other state, determining an amount of time that the selected thread is in the other state.

16. (Original) The method of claim 15, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

17. (Original) The method of claim 15, further comprising the steps of:  
determining, during the portion of the measuring period, whether the selected thread is in the selected state;  
when it is determined that the selected thread is in the selected state, determining a second amount of time that the selected thread is in the selected state; and  
calculating a percent of the portion of the measuring period that constitutes the second amount of time that the selected thread is in the selected state.

18. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating one of the plurality of states to anchor;

determining a portion of the measuring period during which any of the plurality of threads is in the anchored state;

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the anchored state; and

when it is determined that the selected thread is in the other state, determining an amount of time that the selected thread is in the other state.

19. (Original) The method of claim 18, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

20. (Original) The method of claim 18, further comprising the steps of:

determining, during the portion of the measuring period, whether the selected thread is in the anchored state;

when it is determined that the selected thread is in the anchored state, determining a second amount of time that the selected thread is in the anchored state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the selected thread is in the anchored state.

21. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states; and

determining a portion of the measuring period during which any of the plurality of threads is in the selected state.

22. (Original) The method of claim 21, further comprising the steps of:

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the selected state;

when it is determined that the selected thread is in the other state, determining an amount of time that the selected thread is in the other state; and

calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

23. (Original) The method of claim 21, further comprising the steps of:

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in the selected state;

when it is determined that the selected thread is in the selected state, determining an amount of time that the selected thread is in the selected state; and

calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the selected state.

24. (Original) A method in a data processing system having a program with a plurality of states, wherein the program executes via a plurality of paths during a measuring period, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states; and

determining a portion of the measuring period during which any of the plurality of paths of execution is in the selected state.



25. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period,

wherein the measuring period comprises a plurality of time intervals;

receiving user input indicating a selected one of the plurality of states;

determining a portion of the measuring period during which any of the plurality of threads is in the selected state;

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in the selected state; and

when it is determined that the selected thread is in the selected state, determining an amount of time that the selected thread is in the selected state.

26. (Original) The method of claim 25, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the selected state.

27. (Original) A method in a data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating one of the plurality of states to anchor;

determining a portion of the measuring period during which any of the plurality of threads is in the anchored state;

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in the anchored state; and

when it is determined that the selected thread is in the anchored state, determining an amount of time that the selected thread is in the anchored state.

28. (Original) The method of claim 27, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the anchored state.

29. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period,

wherein the measuring period comprises a plurality of time intervals;

receiving user input indicating a selected one of the plurality of states;

receiving user input indicating a selected one of the plurality of threads;

determining a portion of the measuring period during which the selected thread is in the selected state;

determining, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the selected state; and

when it is determined that the other thread is in the other state, determining an amount of time that the other thread is in the other state.

30. (Original) The computer-readable medium of claim 29, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

31. (Original) The computer-readable medium of claim 29, further comprising the steps of:

determining, during the portion of the measuring period, whether the other thread is in the selected state;

when it is determined that the other thread is in the selected state, determining a second amount of time that the other thread is in the selected state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the other thread is in the selected state.

32. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating one of the plurality of states to anchor;

receiving user input indicating a selected one of the plurality of threads;

determining a portion of the measuring period during which the selected thread is in the anchored state;

determining, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the anchored state; and

when it is determined that the other thread is in the other state, determining an amount of time that the other thread is in the other state.

33. (Original) The computer-readable medium of claim 32, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

34. (Original) The computer-readable medium of claim 32, further comprising the steps of:

determining, during the portion of the measuring period, whether the other thread is in the anchored state;

when it is determined that the other thread is in the anchored state, determining a second amount of time that the other thread is in the anchored state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the other thread is in the anchored state.

35. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states;

receiving user input indicating a selected one of the plurality of threads; and

determining a portion of the measuring period during which the selected thread is in the selected state.

36. (Original) The computer-readable medium of claim 35, further comprising the steps of:

determining, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the selected state;  
when it is determined that the other thread is in the other state, determining an amount of time that the other thread is in the other state; and  
calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

37. (Original) The computer-readable medium of claim 35, further comprising the steps of:

determining, during the portion of the measuring period, whether another thread other than the selected thread is in the selected state;  
when it is determined that the other thread is in the selected state, determining an amount of time that the other thread is in the selected state; and  
calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the selected state.

38. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of states, wherein the program executes via a plurality of paths during a measuring period, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states;  
receiving user input indicating a selected one of the plurality of paths of execution; and

determining a portion of the measuring period during which the selected path of execution is in the selected state.

39. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period,

wherein the measuring period comprises a plurality of time intervals;

receiving user input indicating a selected one of the plurality of states;

receiving user input indicating a selected one of the plurality of threads;

determining a portion of the measuring period during which the selected thread is in the selected state;

determining, during the portion of the measuring period, whether another thread other than the selected thread is in the selected state; and

when it is determined that the other thread is in the selected state, determining an amount of time that the other thread is in the selected state.

40. (Original) The computer-readable medium of claim 39, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the selected state.

41. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring

period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

- receiving user input indicating one of the plurality of states to anchor;
- receiving user input indicating a selected one of the plurality of threads;
- determining a portion of the measuring period during which the selected thread is in the anchored state;
- determining, during the portion of the measuring period, whether another thread other than the selected thread is in the anchored state; and
- when it is determined that the other thread is in the anchored state, determining an amount of time that the other thread is in the anchored state.

42. (Original) The computer-readable medium of claim 41, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the anchored state.

43. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

- running the program and determining the state of each thread during a measuring period, wherein the measuring period comprises a plurality of time intervals;
- receiving user input indicating a selected one of the plurality of states;
- determining a portion of the measuring period during which any of the plurality of threads is in the selected state;

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the selected state; and  
when it is determined that the selected thread is in the other state, determining an amount of time that the selected thread is in the other state.

44. (Original) The computer-readable medium of claim 43, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

45. (Original) The computer-readable medium of claim 43, further comprising the steps of:

determining, during the portion of the measuring period, whether the selected thread is in the selected state;

when it is determined that the selected thread is in the selected state, determining a second amount of time that the selected thread is in the selected state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the selected thread is in the selected state.

46. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating one of the plurality of states to anchor;



determining a portion of the measuring period during which any of the plurality of threads is in the anchored state;

determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the anchored state; and

when it is determined that the selected thread is in the other state, determining an amount of time that the selected thread is in the other state.

47. (Original) The computer-readable medium of claim 46, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

48. (Original) The computer-readable medium of claim 46, further comprising the steps of:

determining, during the portion of the measuring period, whether the selected thread is in the anchored state;

when it is determined that the selected thread is in the anchored state, determining a second amount of time that the selected thread is in the anchored state; and

calculating a percent of the portion of the measuring period that constitutes the second amount of time that the selected thread is in the anchored state.

49. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states; and  
determining a portion of the measuring period during which any of the plurality of  
threads is in the selected state.

50. (Original) The computer-readable medium of claim 49, further comprising the  
steps of:

determining, during the portion of the measuring period, whether a selected one of the  
plurality of threads is in another state other than the selected state;  
when it is determined that the selected thread is in the other state, determining an amount  
of time that the selected thread is in the other state; and  
calculating a percent of the portion of the measuring period that constitutes the amount of  
time that the selected thread is in the other state.

51. (Original) The computer-readable medium of claim 49, further comprising the  
steps of:

determining, during the portion of the measuring period, whether a selected one of the  
plurality of threads is in the selected state;  
when it is determined that the selected thread is in the selected state, determining an  
amount of time that the selected thread is in the selected state; and  
calculating a percent of the portion of the measuring period that constitutes the amount of  
time that the selected thread is in the selected state.

52. (Original) A computer-readable medium containing instructions for controlling a  
data processing system to perform a method, the data processing system having a program with a

plurality of states, wherein the program executes via a plurality of paths during a measuring period, the method comprising the steps of:

receiving user input indicating a selected one of the plurality of states; and  
determining a portion of the measuring period during which any of the plurality of paths of execution is in the selected state.

53. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a plurality of threads having a plurality of states, the method comprising the steps of:

running the program and determining the state of each thread during a measuring period,  
wherein the measuring period comprises a plurality of time intervals;  
receiving user input indicating a selected one of the plurality of states;  
determining a portion of the measuring period during which any of the plurality of threads is in the selected state;  
determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in the selected state; and  
when it is determined that the selected thread is in the selected state, determining an amount of time that the selected thread is in the selected state.

54. (Original) The computer-readable medium of claim 53, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the selected state.

55. (Original) A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a program with a

plurality of threads having a plurality of states, wherein the program executes during a measuring period and the measuring period comprises a plurality of time intervals, the method comprising the steps of:

- receiving user input indicating one of the plurality of states to anchor;
- determining a portion of the measuring period during which any of the plurality of threads is in the anchored state;
- determining, during the portion of the measuring period, whether a selected one of the plurality of threads is in the anchored state; and
- when it is determined that the selected thread is in the anchored state, determining an amount of time that the selected thread is in the anchored state.

56. (Original) The computer-readable medium of claim 55, further comprising the step of calculating a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the anchored state.

57. (Original) A data processing system comprising:

- a memory device further comprising

- a target program with a plurality of threads having a plurality of states, wherein the target program executes during a measuring period and the measuring period comprises a plurality of time intervals; and

- a monitoring program that receives user input indicating one of the plurality of states to anchor, that receives user input indicating a selected one of the plurality of threads, that determines a portion of the measuring period during which the selected thread is in the anchored state, that determines,

during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the anchored state, and when it is determined that the other thread is in the other state, the monitoring program determines an amount of time that the other thread is in the other state; and

a processor for running the target program and the monitoring program.

58. (Original) The data processing system of claim 57, wherein the monitoring program further calculates a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

59. (Original) The data processing system of claim 57, wherein the monitoring program further determines, during the portion of the measuring period, whether the other thread is in the anchored state, when it is determined that the other thread is in the anchored state, the monitoring program determines a second amount of time that the other thread is in the anchored state, and calculates a percent of the portion of the measuring period that constitutes the second amount of time that the other thread is in the anchored state.

60. (Original) A data processing system comprising:

a memory device further comprising:

a target program with a plurality of threads having a plurality of states, wherein the target program executes during a measuring period and the measuring period comprises a plurality of time intervals; and

a monitoring program that receives user input indicating a selected one of the plurality of states, that receives user input indicating a selected one of the

plurality of threads, and that determines a portion of the measuring period during which the selected thread is in the selected state; and  
a processor for running the target program and the monitoring program.

61. (Original) The data processing system of claim 60, wherein the monitoring program further determines, during the portion of the measuring period, whether another thread other than the selected thread is in another state other than the selected state, when it is determined that the other thread is in the other state, the monitoring program determines an amount of time that the other thread is in the other state, and calculates a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the other state.

62. (Original) The data processing system of claim 60, wherein the monitoring program further determines, during the portion of the measuring period, whether another thread other than the selected thread is in the selected state, when it is determined that the other thread is in the selected state, the monitoring program determines an amount of time that the other thread is in the selected state, and calculates a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the selected state.

63. (Original) A data processing system comprising:

a memory device further comprising:

a target program with a plurality of threads having a plurality of states, wherein  
the target program executes during a measuring period and the measuring period comprises a plurality of time intervals; and

a monitoring program that receives user input indicating one of the plurality of states to anchor, that receives user input indicating a selected one of the

plurality of threads, that determines a portion of the measuring period during which the selected thread is in the anchored state, that determines, during the portion of the measuring period, whether another thread other than the selected thread is in the anchored state, and when it is determined that the other thread is in the anchored state, the monitoring program determines an amount of time that the other thread is in the anchored state; and

a processor for running the target program and the monitoring program.

64. (Original) The data processing system of claim 63, wherein the monitoring program further calculates a percent of the portion of the measuring period that constitutes the amount of time that the other thread is in the anchored state.

65. (Original) A data processing system comprising:

a memory device further comprising:

a target program with a plurality of threads having a plurality of states, wherein the target program executes during a measuring period and the measuring period comprises a plurality of time intervals; and

a monitoring program that receives user input indicating one of the plurality of states to anchor, that determines a portion of the measuring period during which any of the plurality of threads is in the anchored state, that determines, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the anchored state, and when it is determined that the selected thread is in the other

state, the monitoring program determines an amount of time that the selected thread is in the other state; and

a processor for running the target program and the monitoring program.

66. (Original) The data processing system of claim 65, wherein the monitoring program further calculates a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

67. (Original) The data processing system of claim 65, wherein the monitoring program further the monitoring program determines, during the portion of the measuring period, whether the selected thread is in the anchored state, when it is determined that the selected thread is in the anchored state, the monitoring program determines a second amount of time that the selected thread is in the anchored state, and calculates a percent of the portion of the measuring period that constitutes the second amount of time that the selected thread is in the anchored state.

68. (Original) A data processing system comprising:

a memory device further comprising:

a target program with a plurality of threads having a plurality of states, wherein the target program executes during a measuring period and the measuring period comprises a plurality of time intervals; and

a monitoring program that receives user input indicating a selected one of the plurality of states, and that determines a portion of the measuring period during which any of the plurality of threads is in the selected state; and

a processor for running the target program and the monitoring program.



69. (Original) The data processing system of claim 68, wherein the monitoring program further determines, during the portion of the measuring period, whether a selected one of the plurality of threads is in another state other than the selected state, when it is determined that the selected thread is in the other state, the monitoring program determines an amount of time that the selected thread is in the other state, and calculates a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the other state.

70. (Original) The data processing system of claim 68, wherein the monitoring program further determines, during the portion of the measuring period, whether a selected one of the plurality of threads is in the selected state, when it is determined that the selected thread is in the selected state, the monitoring program determines an amount of time that the selected thread is in the selected state, and calculates a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the selected state.

71. (Original) A data processing system comprising:

a memory device further comprising:

a target program with a plurality of threads having a plurality of states, wherein  
the target program executes during a measuring period and the measuring  
period comprises a plurality of time intervals; and

a monitoring program that receives user input indicating one of the plurality of  
states to anchor, that determines a portion of the measuring period during  
which any of the plurality of threads is in the anchored state, that  
determines, during the portion of the measuring period, whether a selected  
one of the plurality of threads is in the anchored state, and when it is

determined that the selected thread is in the anchored state, the monitoring program determines an amount of time that the selected thread is in the anchored state; and

a processor for running the target program and the monitoring program.

72. (Original) The data processing system of claim 71, wherein the monitoring program further calculates a percent of the portion of the measuring period that constitutes the amount of time that the selected thread is in the anchored state.

73. (Original) A system having a program with a plurality of states, wherein the program executes via a plurality of paths during a measuring period, the system comprising:

means for receiving user input indicating a selected one of the plurality of states;

means for receiving user input indicating a selected one of the plurality of paths of execution; and

means for determining a portion of the measuring period during which the selected path of execution is in the selected state.